

Jacobson

1652

#8

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/915,659A

DATE: 05/01/98  
TIME: 12:50:57

INPUT SET: S25500.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: O'Brien et al  
5 (ii) TITLE OF INVENTION: Novel Extracellular Serine Protease  
6 (iii) NUMBER OF SEQUENCES: 10  
7 (iv) CORRESPONDENCE ADDRESS:  
8 (A) ADDRESSEE: Benjamin Aaron Adler, Ph.D. J.D.  
9 (B) STREET: 8011 Candle Lane  
10 (C) CITY: Houston  
11 (D) STATE: Texas  
12 (E) COUNTRY: USA  
13 (F) ZIP: 77071  
14 (v) COMPUTER READABLE FORM:  
15 (A) MEDIUM TYPE: 1.44 Mb floppy disk  
16 (B) COMPUTER: Apple Macintosh  
17 (C) OPERATING SYSTEM: Macintosh  
18 (D) SOFTWARE: Microsoft Word for Macintosh  
19 (vi) CURRENT APPLICATION DATA:  
20 (A) APPLICATION NUMBER: 08/915,659  
21 (B) FILING DATE: August 21, 1997  
22 (C) CLASSIFICATION: 435  
23 (vii) PRIOR APPLICATION DATE:  
24 (A) APPLICATION NUMBER:  
25 (B) FILING DATE:  
26 (viii) ATTORNEY/AGENT INFORMATION:  
27 (A) NAME: Benjamin Aaron Adler, Ph.D.  
28 (B) REGISTRATION NUMBER: 35,423  
29 (C) REFERENCE/DOCKET NUMBER: D6020  
30 (ix) TELECOMMUNICATION INFORMATION:  
31 (A) TELEPHONE: (713) 777-2321  
32 (B) TELEFAX: (713) 777-6908  
33  
34 (2) INFORMATION FOR SEQ ID NO:1:  
35 (i) SEQUENCE CHARACTERISTICS:  
36 (A) LENGTH: 144 amino acids  
37 (B) TYPE: amino acid  
38 (C) STRANDEDNESS:  
39 (D) TOPOLOGY: linear  
40 (ii) MOLECULE TYPE:  
41 (A) DESCRIPTION: protein  
42 (iii) HYPOTHETICAL: no  
43 (iv) ANTI-SENSE: no  
44 (v) FRAGMENT TYPE: internal  
45 (vi) ORIGINAL SOURCE:  
46 (vii) IMMEDIATE SOURCE:

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/915,659A

DATE: 05/01/98  
TIME: 12:50:58

INPUT SET: S25500.raw

```

47 (viii) POSITION IN GENOME:
48 (ix) FEATURE:
49 (x) PUBLICATION INFORMATION:
50 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 1:
51 Trp Val Leu Thr Ala Ala His Cys Lys Lys Pro Asn Leu Gln Val
52          5                      10                      15
53
54 Phe Leu Glu Lys His Asn Leu Arg Gln Arg Glu Ser Ser Gln Glu
55          20                      25                      30
56
57 Gln Ser Ser Val Val Arg Ala Val Ile His Pro Asp Tyr Asp Ala
58          35                      40                      45
59
60 Ala Ser His Asp Gln Asp Ile Met Leu Leu Arg Leu Ala Arg Pro
61          50                      55                      60
62
63 Ala Lys Leu Ser Glu Leu Ile Gln Pro Leu Pro Leu Glu Arg Asp
64          65                      70                      75
65
66 Cys Ser Ala Asn Thr Thr Ser Cys His Ile Leu Gly Trp Gly Lys
67          80                      85                      90
68
69
70 Thr Ala Asp Gly Asp Phe Pro Asp Thr Ile Gln Cys Ala Tyr Ile
71          95                      100                     105
72
73 His Leu Val Ser Arg Glu Glu Cys Glu His Ala Tyr Pro Gly Gln
74          110                     115                     120
75
76 Ile Thr Gln Asn Met Leu Cys Ala Gln Asp Glu Lys Tyr Gly Lys
77          125                     130                     135
78
79 Asp Ser Cys Gln Gly Asp Ser Gly Gly
80          140
81 (2) INFORMATION FOR SEQ ID NO:2:
82 (i) SEQUENCE CHARACTERISTICS:
83 (A) LENGTH: 148 amino acids
84 (B) TYPE: amino acid
85 (C) STRANDEDNESS:
86 (D) TOPOLOGY: linear
87 (ii) MOLECULE TYPE:
88 (A) DESCRIPTION: protein
89 (iii) HYPOTHETICAL: no
90 (iv) ANTI-SENSE: no
91 (v) FRAGMENT TYPE: internal
92 (vi) ORIGINAL SOURCE:
93 (vii) IMMEDIATE SOURCE:
94 (viii) POSITION IN GENOME:
95 (ix) FEATURE:
96 (x) PUBLICATION INFORMATION:
97 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 2:
98 Trp Val Val Thr Ala Ala His Cys Lys Lys Pro Lys Tyr Thr Val
99          5                      10                      15

```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/915,659A

DATE: 05/01/98  
TIME: 12:50:59

INPUT SET: S25500.raw

```

100
101 Arg Leu Gly Asp His Ser Leu Gln Asn Lys Asp Gly Pro Glu Gln
102          20                      25                      30
103
104 Glu Ile Pro Val Val Gln Ser Ile Pro His Pro Cys Tyr Asn Ser
105          35                      40                      45
106
107 Ser Asp Val Glu Asp His Asn His Asp Leu Met Leu Leu Gln Leu
108          50                      55                      60
109
110 Arg Asp Gln Ala Ser Leu Gly Ser Lys Val Lys Pro Ile Ser Leu
111          65                      70                      75
112
113 Ala Asp His Cys Thr Gln Pro Gly Gln Asn Cys Thr Val Ser Gly
114          80                      85                      90
115
116 Trp Gly Thr Val Thr Ser Pro Arg Glu Asn Phe Pro Asp Thr Leu
117          95                      100                     105
118
119 Asn Cys Ala Glu Val Lys Ile Phe Pro Gln Lys Lys Cys Glu Asp
120          110                     115                     120
121
122 Ala Tyr Pro Gly Gln Ile Thr Asp Gly Met Val Cys Ala Gly Ser
123          125                     130                     135
124
125 Ser Lys Gly Ala Asp Thr Cys Gln Gly Asp Ser Gly Gly
126          140                     145
127 (2) INFORMATION FOR SEQ ID NO:3:
128 (i) SEQUENCE CHARACTERISTICS:
129 (A) LENGTH: 146 amino acids
130 (B) TYPE: amino acid
131 (C) STRANDEDNESS:
132 (D) TOPOLOGY: linear
133 (ii) MOLECULE TYPE:
134 (A) DESCRIPTION: protein
135 (iii) HYPOTHETICAL: no
136 (iv) ANTI-SENSE: no
137 (v) FRAGMENT TYPE: internal
138 (vi) ORIGINAL SOURCE:
139 (vii) IMMEDIATE SOURCE:
140 (viii) POSITION IN GENOME:
141 (ix) FEATURE:
142 (x) PUBLICATION INFORMATION:
143 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 3:
144 Trp Val Val Ser Ala Gly His Cys Tyr Lys Ser Arg Ile Gln Val
145          5                      10                      15
146
147
148 Arg Leu Gly Glu His Asn Ile Glu Val Leu Glu Gly Asn Glu Gln
149          20                      25                      30
150
151 Phe Ile Asn Ala Ala Lys Ile Ile Arg His Pro Gln Tyr Asp Arg
152          35                      40                      45

```

**INPUT SET: S25500.raw**

```

153
154 Lys Thr Leu Asn Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Arg
155                      50                      55                      60
156
157 Ala Val Ile Asn Ala Arg Val Ser Thr Ile Ser Leu Pro Thr Ala
158                      65                      70                      75
159
160 Pro Pro Ala Thr Gly Thr Lys Cys Leu Ile Ser Gly Trp Gly Asn
161                      80                      85                      90
162
163 Thr Ala Ser Ser Gly Ala Asp Tyr Pro Asp Glu Leu Gln Cys Leu
164                      95                      100                      105
165
166 Asp Ala Pro Val Leu Ser Gln Ala Lys Cys Glu Ala Ser Tyr Pro
167                      110                      115                      120
168
169 Gly Lys Ile Thr Ser Asn Met Phe Cys Val Gly Phe Leu Glu Gly
170                      125                      130                      135
171
172 Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly
173                      140                      145
174
175 (2) INFORMATION FOR SEQ ID NO:4:
176 (i) SEQUENCE CHARACTERISTICS:
177 (A) LENGTH: 144 amino acids
178 (B) TYPE: amino acid
179 (C) STRANDEDNESS:
180 (D) TOPOLOGY: linear
181 (ii) MOLECULE TYPE:
182 (A) DESCRIPTION: protein
183 (iii) HYPOTHETICAL: no
184 (iv) ANTI-SENSE: no
185 (v) FRAGMENT TYPE: internal
186 (vi) ORIGINAL SOURCE:
187 (vii) IMMEDIATE SOURCE:
188 (viii) POSITION IN GENOME:
189 (ix) FEATURE:
190 (x) PUBLICATION INFORMATION:
191 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 4:
192 Trp Val Leu Thr Ala Ala His Cys Lys Met Asn Glu Tyr Thr Val
193                      5                      10                      15
194
195 His Leu Gly Ser Asp Thr Leu Gly Asp Arg Arg Ala Gln Arg Ile
196                      20                      25                      30
197
198 Lys Ala Ser Lys Ser Phe Arg His Pro Gly Tyr Ser Thr Gln Thr
199                      35                      40                      45
200
201 His Val Asn Asp Leu Met Leu Val Lys Leu Asn Ser Gln Ala Arg
202                      50                      55                      60
203
204 Leu Ser Ser Met Val Lys Lys Val Arg Leu Pro Ser Arg Cys Glu
205                      65                      70                      75

```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/915,659A

DATE: 05/01/98  
TIME: 12:51:00

INPUT SET: S25500.raw

```

206
207 Pro Pro Gly Thr Thr Cys Thr Val Ser Gly Trp Gly Thr Thr Thr
208                               80                               85                               90
209
210 Ser Pro Asp Val Thr Phe Pro Ser Asp Leu Met Cys Val Asp Val
211                               95                               100                               105
212
213 Lys Leu Ile Ser Pro Gln Asp Cys Thr Lys Val Tyr Lys Asp Leu
214                               110                               115                               120
215
216 Leu Glu Asn Ser Met Leu Cys Ala Gly Ile Pro Asp Ser Lys Lys
217                               125                               130                               135
218
219 Asn Ala Cys Asn Gly Asp Ser Gly Gly
220                               140
221
222 (2) INFORMATION FOR SEQ ID NO:5:
223 (i) SEQUENCE CHARACTERISTICS:
224 (A) LENGTH: 159 amino acids
225 (B) TYPE: amino acid
226 (C) STRANDEDNESS:
227 (D) TOPOLOGY: linear
228 (ii) MOLECULE TYPE:
229 (A) DESCRIPTION: protein
230 (iii) HYPOTHETICAL: no
231 (iv) ANTI-SENSE: no
232 (v) FRAGMENT TYPE: internal
233 (vi) ORIGINAL SOURCE:
234 (vii) IMMEDIATE SOURCE:
235 (viii) POSITION IN GENOME:
236 (ix) FEATURE:
237 (x) PUBLICATION INFORMATION:
238 (xi) SEQUENCE DESCRIPTION:SEQ ID NO: 5:
239 Trp Val Leu Thr Ala Ala His Cys Phe Pro Glu Arg Asn Arg Val
240                               5                               10                               15
241
242 Leu Ser Arg Trp Arg Val Phe Ala Gly Ala Val Ala Gln Ala Ser
243                               20                               25                               30
244
245 Pro His Gly Leu Gln Leu Gly Val Gln Ala Val Val Tyr His Gly
246                               35                               40                               45
247
248 Gly Tyr Leu Pro Phe Arg Asp Pro Asn Ser Glu Glu Asn Ser Asn
249                               50                               55                               60
250
251 Asp Ile Ala Leu Val His Leu Ser Ser Pro Leu Pro Leu Thr Glu
252                               65                               70                               75
253
254 Tyr Ile Gln Pro Val Cys Leu Pro Ala Ala Gly Gln Ala Leu Val
255                               80                               85                               90
256
257 Asp Gly Lys Ile Cys Thr Val Thr Gly Trp Gly Asn Thr Gln Tyr
258                               95                               100                               105

```

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/915,659A**

DATE: 05/01/98  
TIME: 12:51:02

*INPUT SET: S25500.raw*

Line

Error

Original Text